PATENT COOPERATION TREATY

PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
2003CH011	International filing date (day/month/y	vear) (Earliest) Priority Date (day/month/year)
nternational application No.		10/12/2003
PCT/IB2004/003959	02/12/2004	10/12/2000
Applicant		
CLARIANT INTERNATIONAL L'	TD	
		ching Authority and is transmitted to the applicant
This International Search Benort consis	sts of a total of shee	ets.
	by a copy of each prior art document cite	ed in this report.
X It is also accompanied	ASSESSMENT COMPANIES OF THE STATE OF THE STA	
language in which it was lied.	Ulliess Officialise man	on the basis of the international application in the em.
The internation	hal search was carried out on the basis of	of a translation of the international application furnished to
b. With regard to any nuc	cleotide and/or amino acid sequence	disclosed in the international application, see Box No. I.
2. Certain claims were	found unsearchable (See Box II).	
3. Unity of invention is	lacking (see Box III).	
4. With regard to the title ,		
the text is approved a	s submitted by the applicant.	wa.
the text has been esta	ablished by this Authority to read as folio	iewc:
-		
5. With regard to the abstract,		
X the text is approved	as submitted by the applicant.	thic Authority as it annears in Roy No. IV. The applicant
		r this Authority as it appears in Box No. IV. The applicant national search report, submit comments to this Authority.
6. With regard to the drawings,	and the second s	e No.
a. the figure of the drawings t	o be published with the abstract is Figure	
as suggeste	ed by the applicant.	
as selected	by this Authority, because the applicant	etter characterizes the invention.
as selected	by this Authority, because this figure be	
b. none of the figures	is to be published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/003959

a. classif IPC 7	CATION OF SUBJECT MATTER C09B29/095 C09B29/44	C09B29/08 C09D11	./00		
	International Patent Classification (IPC) or to both national classification	and IPC	godnett i 2.28 i sensk (200 liger millager med agen betyr mygre gent and administration of the special special		
B. FIELDS S	SEARCHED cumentation searched (classification system followed by classification s	symbols)	grandenatic sat		
IPC 7	C03B C03D				
Documentati	ion searched other than minimum documentation to the extent that such	documents are included in the fields sea	rched		
	ata base consulted during the international search (name of data base	and, where practical, search terms used)	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		
EPO-In	ternal				
STORY OF THE PROPERTY OF THE P	TO DE DEI EVANT				
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevance.	ant passages	Relevant to claim No.		
A	CP 000 843 A (ICI LTD)		1,4,5,7,		
A THE STATE OF THE	7 November 1962 (1962-11-07) example 40 & US 3 097 198 A 9 July 1963 (1963	3-07-09)			
A	WO 95/20014 A (ZENECA LTD ; HALL N		1,4,5,7,		
No. of the Control of	(GB)) 27 July 1995 (1995-07-27) example 64				
A CONTRACTOR OF THE CONTRACTOR					
Marine Million or to the World					
Note that the state of the stat			CATALOG CONTRACTOR CON		
T T FL	urther documents are listed in the continuation of box C.	X Patent family members are lister	d in annex.		
° Special	categories of cited documents:	"T" later document published after the ir or priority date and not in conflict wi			
A document defining the general state of the art which is not considered to be of particular relevance invention					
"E" earlier document but published on or after the international filing date "X" document of particular televance, and the considered to cannot be considered novel or cannot be considered to cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone involve an inventive step when the document is taken alone.					
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or special reason (as specified)					
other means in the art. *P* document published prior to the international filing date but *&* document member of the same patent family					
	the actual completion of the international search	Date of mailing of the international	search report		
AND THE RESIDENCE OF THE PARTY	2 February 2005	10/02/2005			
Name a	nd mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer Ketterer, M			
1	Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	1,0000101,			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/IB2004/003959

				1		
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 909843	A	07-11-1962	CH CH FR	405538 418494 1247768	Α	15-01-1966 15-08-1966 02-12-1960
US 3097198	A	09-07-1963	NONE			making black former Miller mark Miller School school Chann Market Printer School Schoo
WO 9520014	A	27-07-1995	AU CA DE DE EP WO JP US ZA	1323295 2180448 69427543 69427543 0740690 9520014 9507693 5739299	A1 D1 T2 A1 A1 T	08-08-1995 27-07-1995 26-07-2001 20-06-2002 06-11-1996 27-07-1995 05-08-1997 14-04-1998 28-11-1995

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY see form PCT/ISA/220 (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International filing date (day/month/year) International application No. 10.12.2003 02.12.2004 PCT/IB2004/003959 International Patent Classification (IPC) or both national classification and IPC C09B29/085, C09B29/095, C09B29/44, C09B29/08, C09D11/00 Applicant CLARIANT INTERNATIONAL LTD This opinion contains indications relating to the following items: 1. Basis of the opinion Box No. 1 Priority ☐ Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention ☐ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited ☐ Box No. VI Certain defects in the international application Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized Officer Name and mailing address of the ISA:

Ketterer, M

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Fax: +31 70 340 - 3016

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/003959

	Box							
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
		lan (ur	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ider Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
	a. type of material:							
	1		a sequence listing					
	Ī		table(s) related to the sequence listing					
	b. format of material:							
			in written format					
			in computer readable form					
	c. t	of filing/furnishing:						
□ со			contained in the international application as filed.					
			filed together with the international application in computer readable form.					
			furnished subsequently to this Authority for the purposes of search.					
3	. 🗆	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.					
4	Additional comments:							

International application No. PCT/IB2004/003959

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Box No. V industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-8

No:

Claims

Inventive step (IS)

Yes: Claims

1-8

No: Claims

Industrial applicability (IA)

Yes: Claims

1-8

Claims No:

2. Citations and explanations

see separate sheet

Certain defects in the international application Box No. VII

The following defects in the form or contents of the international application have been noted:

see separate sheet

PCT/IB2004/003959

- V. Reference is made to the following documents:
- D1: WO -A- 2004/035690
- D2: GB -A- 0 909 843
- D3: WO -A- 95/20014
- V.1. The current application seems to fullfill the requirements with regard to novelty, inventivity and industrial applicability as set out in Article 33(1) PCT.
- V.1.1. The problem underlying the current application can be seen (vis à vis D2/D3) as 'providing new alternative dispersive dyes to colour or print hydrophobic materials like textiles (polyester, cellulose acetat) resp. for mass colouration of polymers as well as for the ink jet printing technique resp. hot-melt process'.
- V.1.2. Regarding formula (1) of the current application, D2 discloses a dyestuff bearing a methyl group in the position of R5 (see example 40). It is used to colour cellulose acetat. In col. 2, page 1 of D2, a list of prefered chemical groups is given for the substructure X of the molecule, thereby methyl carbonyl is mentioned as the only carbonyl linked group. Proposed is also phenyl, but not phenyl carbonyl. C-pentanone resp. c-hexanone rings, which are defined for R5 in the application as well, are not mentioned in D2, either. The dyestuffs of D2 solve the same technical problem as mentioned above. A skilled person would under certain circumstances choose methyl carbonyl in the position of X, but not phenyl carbonyl. Furthermore, carbonyl is only an optional feature in D2 and therefore not critical as in the current application. Current claims 1-8 therefore seem not to be obvious from D2.
- V.1.3. D3 describes the preparation of a dyestuff also bearing a methyl group in the position of R5 (see example 64 as well as he table on page 18) and which is also used to colour cellulose acetat. The dyestuffs of D3 solve the same technical problem as the one of the current application. No hint is given in D3 for a phenyl carbonyl group in the ester function. Claims 1-8 therefore seem to be not obvious from D3.

 As D2 and D3 miss this critical feature, also a combination D2/D3 would not lead a skilled person to the dyestuffs as defined in current claim 1.
- VII. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 is not mentioned in the description, nor are these documents identified therein.